

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave. St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001511**Date Inspected:** 03-Mar-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** OBG 3BE, OBG 4 BE, OBG 4AW**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following: OBG 3BE

A joint three party inspection was performed to verify the adhesion of the Interzinc 22 on the interior surfaces with ZPMC QC representative ABF QA Bill Oak and David Duon and Caltrans QA Lumley. The following values were observed and recorded: 1) 11.23MPa 2) 10.23MPa 3) 11.02MPa 4) 11.45MPa 5) 10.62 MPa. Also in attendance was International Protective Coatings technical service representative Zili Peng.

OBG 4AW

Caltrans QA with ABF QA Bill Oak observed cutting and burning damages to the surfaces of this segment during the trimming process of excess deck plate removal for segmental joining process dross and slag deposited onto recently applied Interzinc 22 as well as damaged coatings from the cutting process itself.

OBG 4BE

Performed joint three party inspection on box girder faying surface base metal and and floor beam attachments. Caltrans QA Lumley as well as ZPMC QC representative and ABF QA representative attended and verified surface cleanliness and blast profile. Profiles obtained were 74-80um and the ambient conditions were monitored by ABF QA representative and found to be within the requirements of both the contract documents and the manufacturers product data sheets. Interzinc 22 was applied to these base metal surfaces. Also in attendance was International Protective coatings technical service representative Zili Peng.

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Summary of Conversations:

Discussed amount of damages from flame cutting process and trimming of excess edge on segments with ABF Bill Oak and repairs required. Mr. Oak stated abrasive blasting would be required and application of Interzinc 22 to affected areas.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer
